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8 T/M 12 NOVEMBER 2021

Welkom

Intelligent Asset Management: Innovaties die staan!

Johan Amsing, Solution Architect – Ideo & Rohan Patel, CEO - AsInt

AsInt Ideo

Intelligent Asset Management

Innovaties die staan!!

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Solution architect

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SAP Intelligent Asset Management

Asset Strategy And Performance Management

- ✓ Determine maintenance strategy
- ✓ Analyze failure modes and causes using RCM/FMECA methods
- ✓ Optimize maintenance plans

Mobile Asset Management

- ✓ Processing work orders online/offline
- ✓ Improve availability and asset lifecycle through faster work processes
- ✓ Less paper

AsInt's Mechanical Integrity in SAP Intelligent Asset Management (IAM) suite

- ✓ Removing data silos and disconnected work processes
- ✓ Co-Innovated, Certified and endorsed by SAP
- ✓ Embed MI functions in SAP AIN and ASPM

Asset Health Prediction and optimization

- ✓ Predictive maintenance
- ✓ Collect and analyse sensordata
- ✓ Predict failure modes in time
- ✓ Improve asset performance

Asset Central

- ✓ Real-time asset information
- ✓ Connected assets
- ✓ Collaboration
- ✓ Single source

SAP S/4HANA

- ✓ Planning & scheduling of maintenance activities
- ✓ Integrated documentation

Asset Network and Collaboration

- ✓ Share asset information
- ✓ Improve data quality
- ✓ Reduce data maintenance
- ✓ Increase asset availability

ideo

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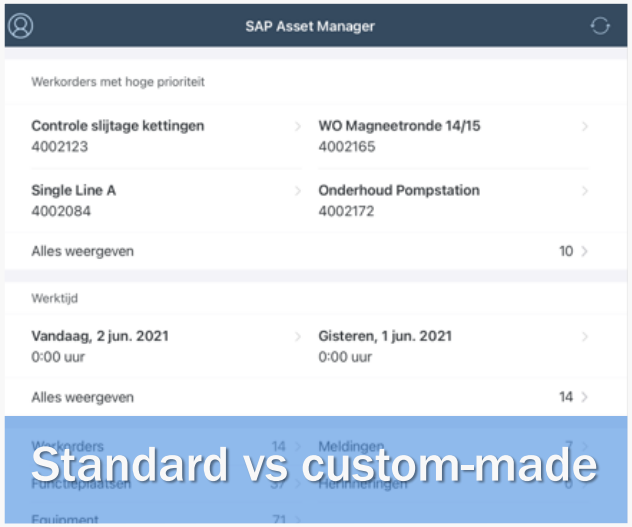
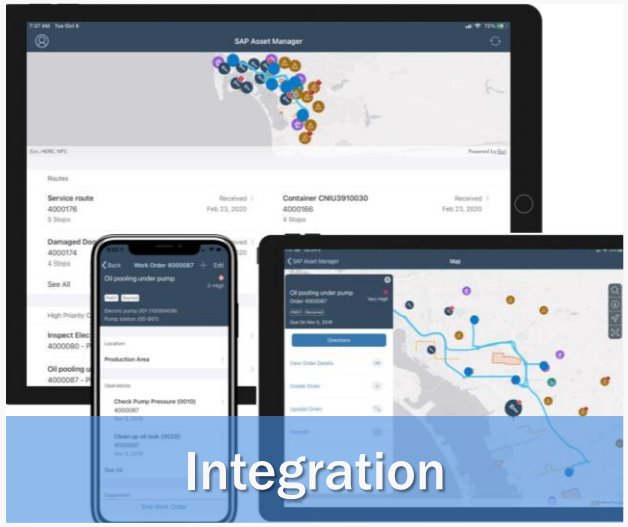
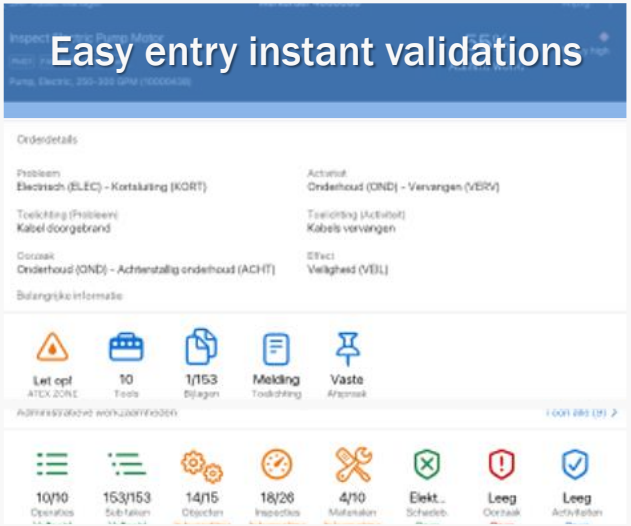


Standard vs custom-made

360° view on the asset

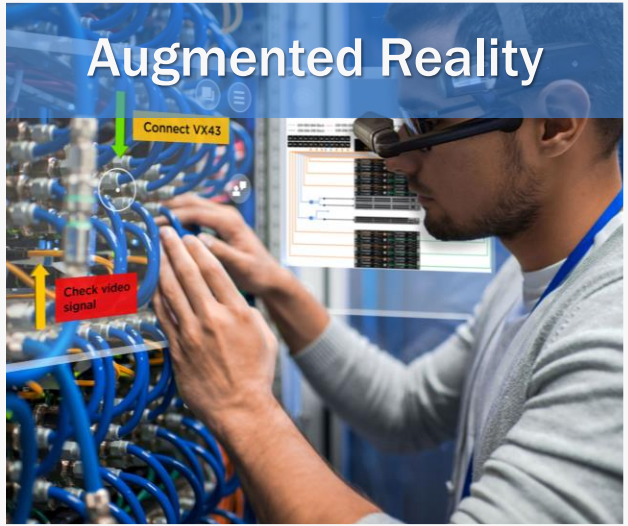


Integration



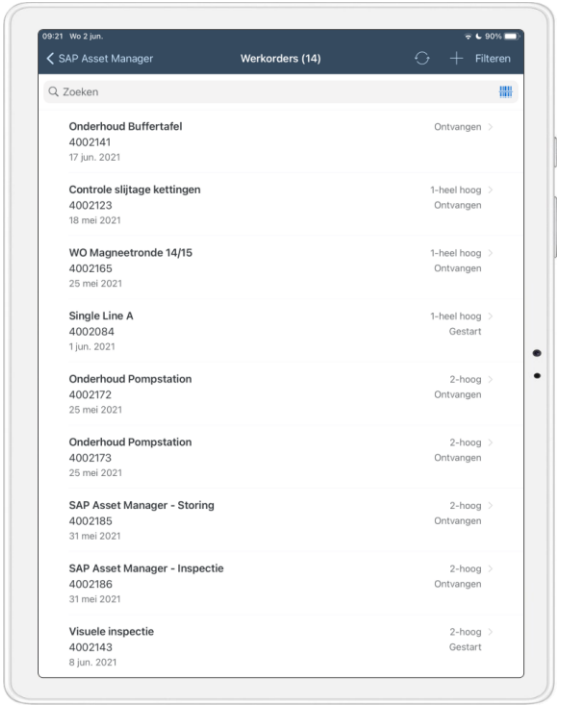
Easy entry instant validations

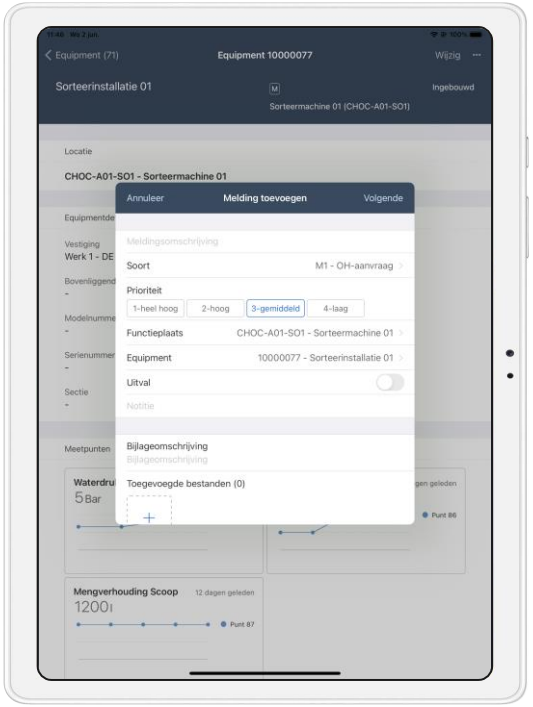
Process driven

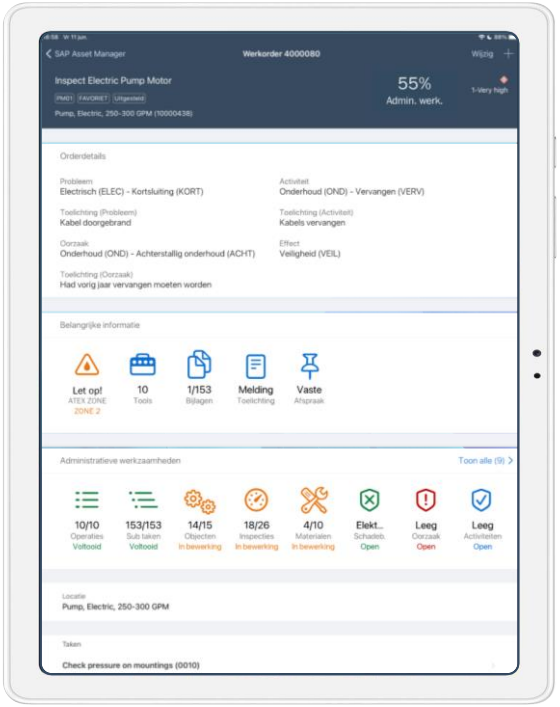


Augmented Reality

SAP Asset Manager







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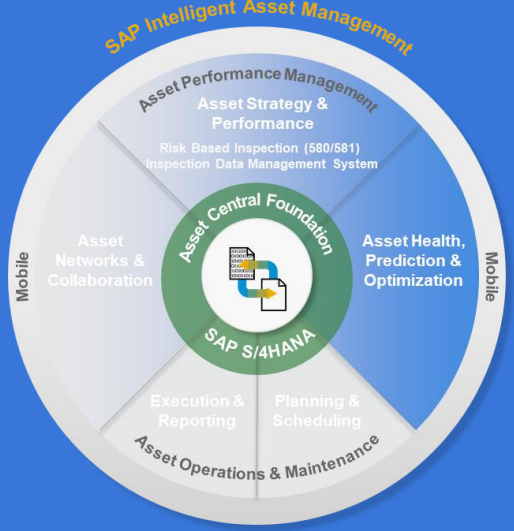

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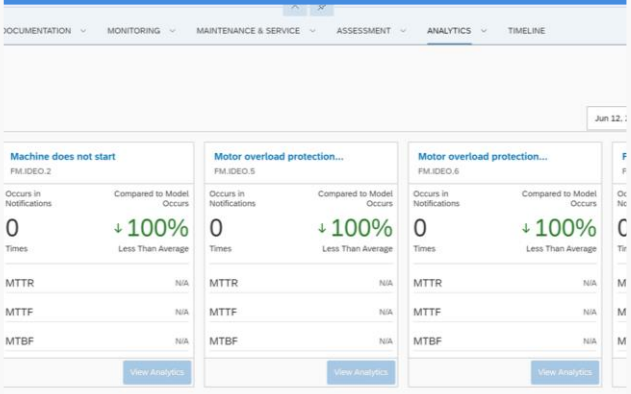
IoT

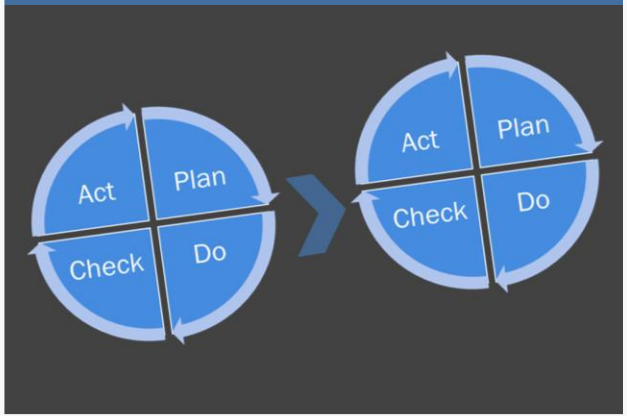
Asset Central

Condition monitoring

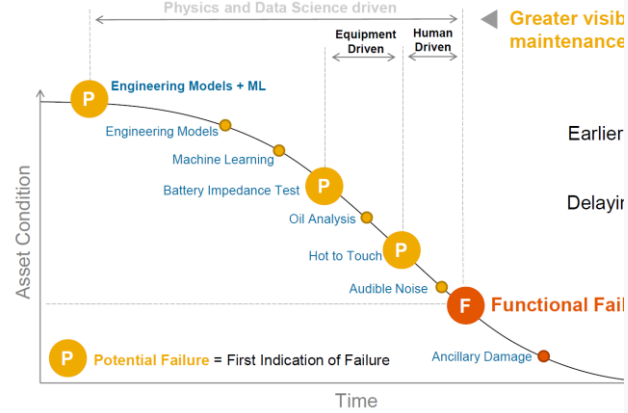
Failure mode analysis



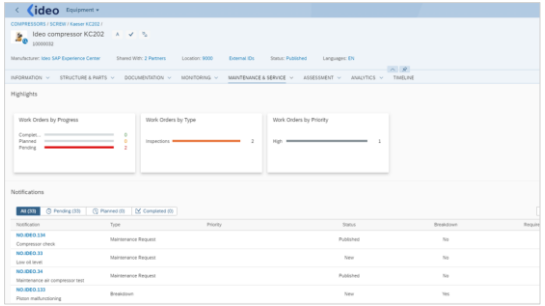
Plan-Do-Check-Act



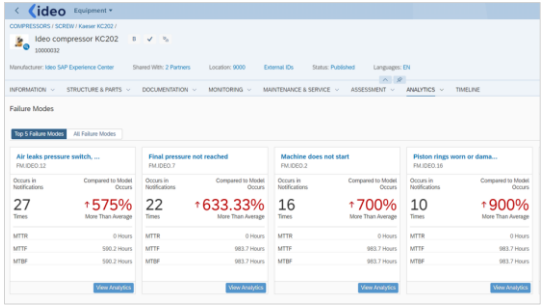
Predictive maintenance



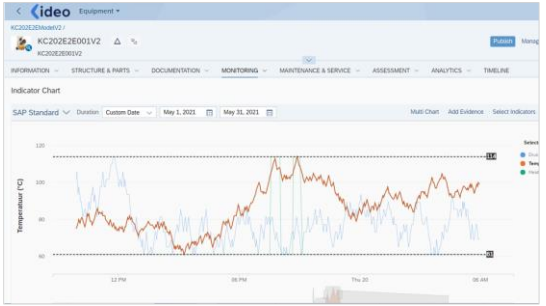
Predictive Asset Insights



ERP integration



Failure mode analysis



Condition monitoring

ideo

Ideo compressor KC202

A

10000032

Manufacturer: Ideo SAP Experience Center | Shared With: 2 Partners | Location: 9000 | External IDs | Status: Published | Languages: EN

Highlights

Work Orders by Progress

Work Orders by Type

Work Orders by Priority

Notifications

All (33) | Pending (33) | Planned (0) | Completed (0)

Notification	Type	Priority	Status	Breakdown	Require
NO.IDEO.134 Compressor check	Maintenance Request		Published	No	
NO.IDEO.33 Low oil level	Maintenance Request		New	No	
NO.IDEO.34 Maintenance air compressor test	Maintenance Request		Published	No	
NO.IDEO.133 Piston malfunctioning	Breakdown		New	Yes	

Ideo compressor KC202

B

10000032

Manufacturer: Ideo SAP Experience Center | Shared With: 2 Partners | Location: 9000 | External IDs | Status: Published | Languages: EN

Failure Modes

Top 5 Failure Modes | All Failure Modes

Air leaks pressure switch, ...

FM.IDEO.12

Occurs in Notifications	Compared to Model Occurs
27 Times	↑575% More Than Average

MTTR	0 Hours
MTTF	590.2 Hours
MTBF	590.2 Hours

View Analytics

Final pressure not reached

FM.IDEO.7

Occurs in Notifications	Compared to Model Occurs
22 Times	↑633.33% More Than Average

MTTR	0 Hours
MTTF	983.7 Hours
MTBF	983.7 Hours

View Analytics

Machine does not start

FM.IDEO.2

Occurs in Notifications	Compared to Model Occurs
16 Times	↑700% More Than Average

MTTR	0 Hours
MTTF	983.7 Hours
MTBF	983.7 Hours

View Analytics

Piston rings worn or dama...

FM.IDEO.16

Occurs in Notifications	Compared to Model Occurs
10 Times	↑900% More Than Average

MTTR	0 Hours
MTTF	983.7 Hours
MTBF	983.7 Hours

View Analytics

KC202E2E001V2

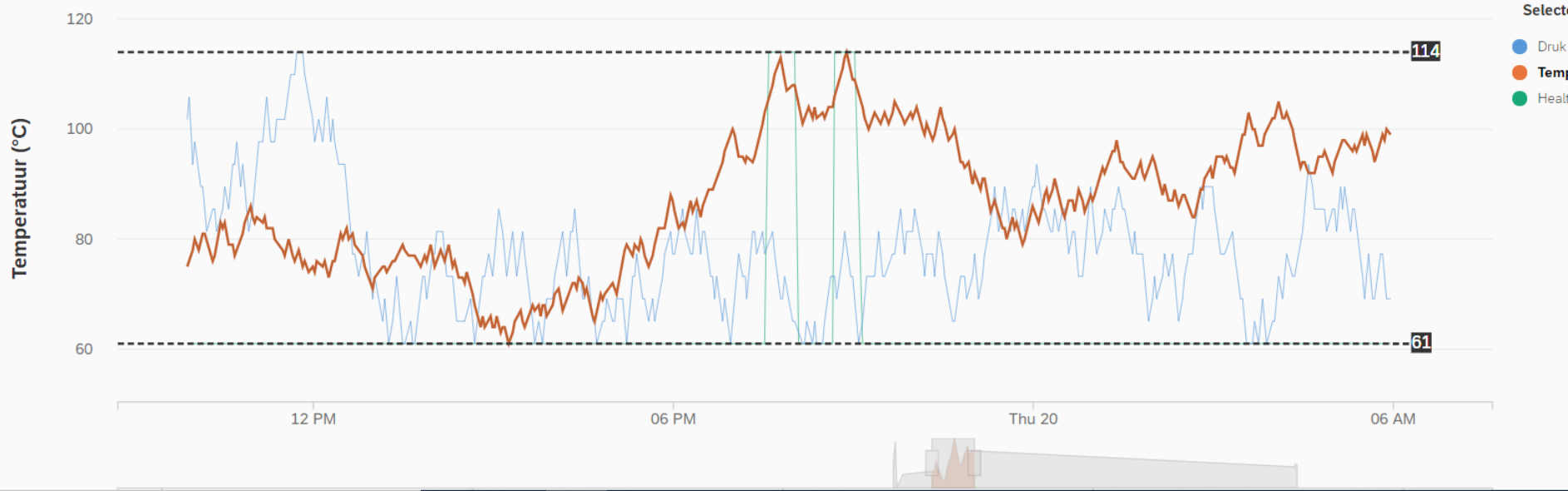
KC202E2E001V2

Publish Manag

INFORMATION | STRUCTURE & PARTS | DOCUMENTATION | MONITORING | MAINTENANCE & SERVICE | ASSESSMENT | ANALYTICS | TIMELINE

Indicator Chart

SAP Standard | Duration | Custom Date | May 1, 2021 | May 31, 2021 | Multi Chart | Add Evidence | Select Indicators



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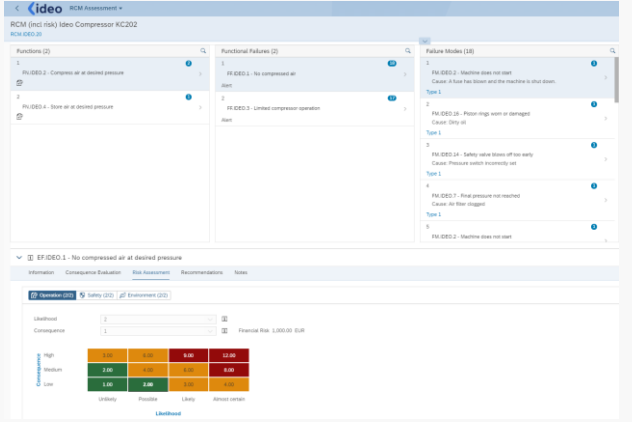
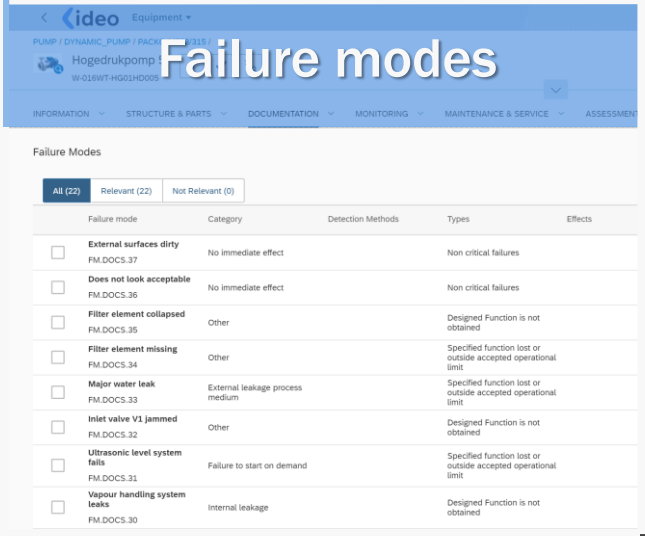
ideo

Risk profile

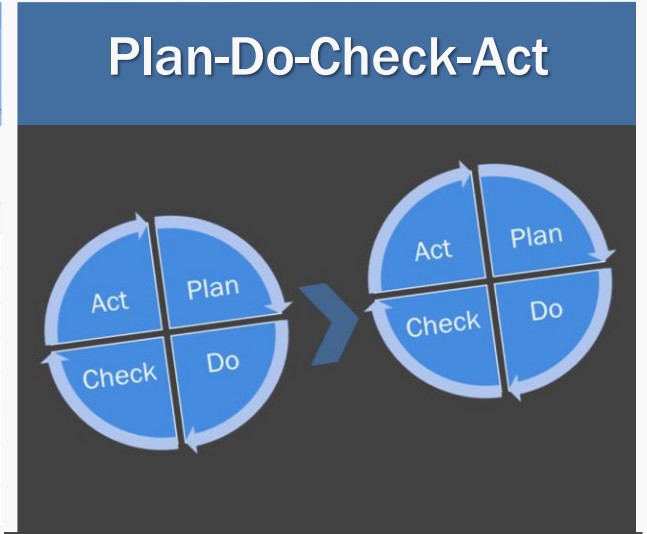
Asset Central



RCM & FMEA



Failure modes



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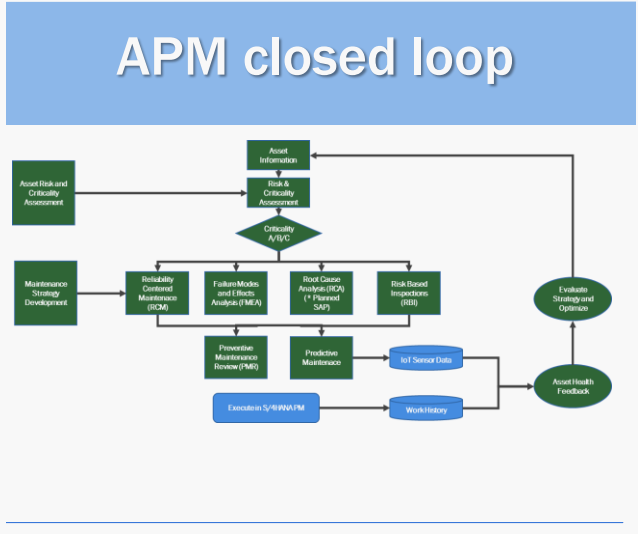
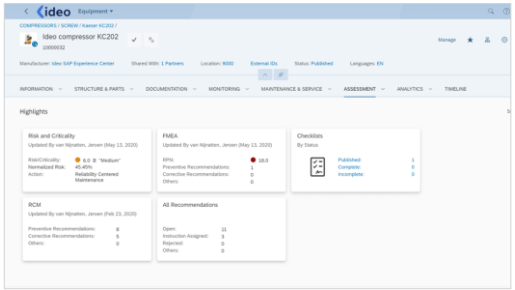
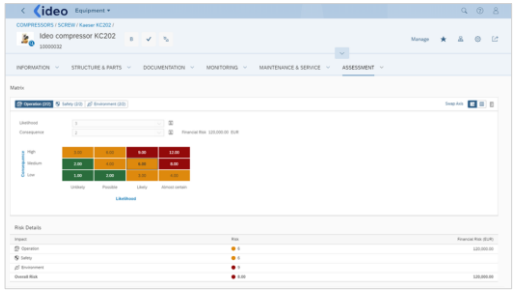


APM closed loop

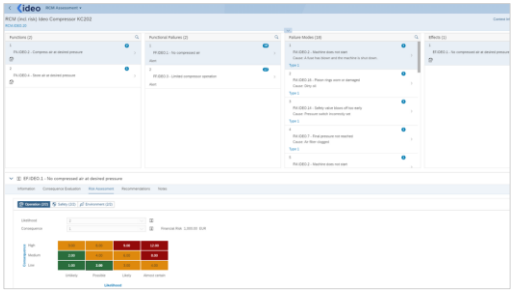
Asset Strategy and Performance Management



Assessments



Risk & Criticality



RCM assessment

ideo

Ideo compressor KC202

10000032

Manage

Manufacturer: Ideo SAP Experience Center | Shared With: 1 Partners | Location: 9000 | External IDs | Status: Published | Languages: EN

Highlights

Risk and Criticality

Updated By van Nijnatten, Jeroen (May 13, 2020)

Risk/Criticality:	6.0 B "Medium"
Normalized Risk:	45.45%
Action:	Reliability Centered Maintenance

FMEA

Updated By van Nijnatten, Jeroen (May 13, 2020)

RPN:	18.0
Preventive Recommendations:	1
Corrective Recommendations:	0
Others:	0

Checklists

By Status

Published:	1
Complete:	0
Incomplete:	0

RCM

Updated By van Nijnatten, Jeroen (Feb 23, 2020)

Preventive Recommendations:	8
Corrective Recommendations:	5
Others:	0

All Recommendations

Open:	11
Instruction Assigned:	3
Rejected:	0
Others:	0

Ideo compressor KC202

10000032

B

Manage

Matrix

Operation (2/2) | Safety (2/2) | Environment (2/2)

Swap Axis

Likelihood 3

Consequence 2

Financial Risk 120,000.00 EUR

Risk Details

Impact	Risk	Financial Risk (EUR)
Operation	6	120,000.00
Safety	6	
Environment	9	
Overall Risk	8.00	**120,000.00**

RCM (incl risk) Ideo Compressor KC202

RCM.IDEO.20

Context Inf

Functions (2)

1 — 2
FN.IDEO.2 - Compress air at desired pressure

2 — 1
FN.IDEO.4 - Store air at desired pressure

Functional Failures (2)

1 — 18
FF.IDEO.1 - No compressed air
Alert

2 — 17
FF.IDEO.3 - Limited compressor operation
Alert

Failure Modes (18)

1 — 1
FM.IDEO.2 - Machine does not start
Cause: A fuse has blown and the machine is shut down.
Type 1

2 — 1
FM.IDEO.16 - Piston rings worn or damaged
Cause: Dirty oil
Type 1

3 — 1
FM.IDEO.14 - Safety valve blows off too early
Cause: Pressure switch incorrectly set
Type 1

4 — 1
FM.IDEO.7 - Final pressure not reached
Cause: Air filter clogged
Type 1

5 — 1
FM.IDEO.2 - Machine does not start

Effects (1)

1
EF.IDEO.1 - No compressed air at desired pressure

EF.IDEO.1 - No compressed air at desired pressure

Information | Consequence Evaluation | Risk Assessment | Recommendations | Notes

Operation (2/2) | Safety (2/2) | Environment (2/2)

Likelihood: 2
Consequence: 1
Financial Risk 1,000.00 EUR

Consequence	Unlikely	Possible	Likely	Almost certain
High	3.00	6.00	9.00	12.00
Medium	2.00	4.00	6.00	8.00
Low	1.00	2.00	3.00	4.00

Likelihood

Strategic Partnership Ideo & AsInt

"To deliver **more** options to the SAP Intelligent Asset Management Suite"

AsInt

- +20 years expert in software development in the field of Asset Management and Risk-Based Management
- In Co-innovation with SAP certified Risk Based Inspection solution to expand the current SAP IAM solution

ideo

- +20 years expert in SAP service and asset management processes
- A SAP ASPM package solution for a rapid implemention of the solution, the Risk Based Inspection solution of AsInt is part of this package

Can I perform Mechanical Integrity functionality such as RBI, Inspections, Thickness Monitoring in SAP Intelligence Asset Management?

asint.net

AsInt's RBI (Risk-Based Inspection Apps) and IDMS (Inspection Data Management System Apps) extend the current ASPM code-based. Most of the codebase and functionality (non-functional and functional) have been implemented within mature organizations in various continents worldwide. These ensure the core building blocks, such as Asset Management, Templates, Master Data, Internationalization and Localization, Plant Maintenance Integration, etc., are sound

Key Highlight of the solution:

- Performing these functions within the SAP ecosystem ensures all data needed to manage the swiss cheese model is consolidated within the SAP Master Data
- Remove multiple asset registries
- Connecting the dots for tactical and strategic decisions
- Removing data silos and disconnected work processes
- Co-Innovated, Certified and endorsed by SAP
- Embed MI functions in SAP AIN and ASPM

Asset central foundation is the technology foundation for content, processes, and integration supporting **SAP Asset Intelligence Network (AIN)**, **SAP Predictive Asset Insight (PAI)**, and **SAP Asset Strategy and Performance Management (ASPM)**. Customers get this as part of their SAP Asset Intelligence Network, SAP Predictive Asset Insight, and/or SAP Asset Strategy and Performance Management licensing.

Outcomes

- *Simplified with market standard technology, data, and processes*
- *Mechanical Integrity functions become native Apps within SAP Asset Intelligence Network*
- *Risk-Based, Time-based, Condition-Based decision making is now EAM functionality*
- *Single Asset Registry & Single Sign On*
- *Removes duplicate data Improved employee experience and productivity*
- *Maximized ROI*

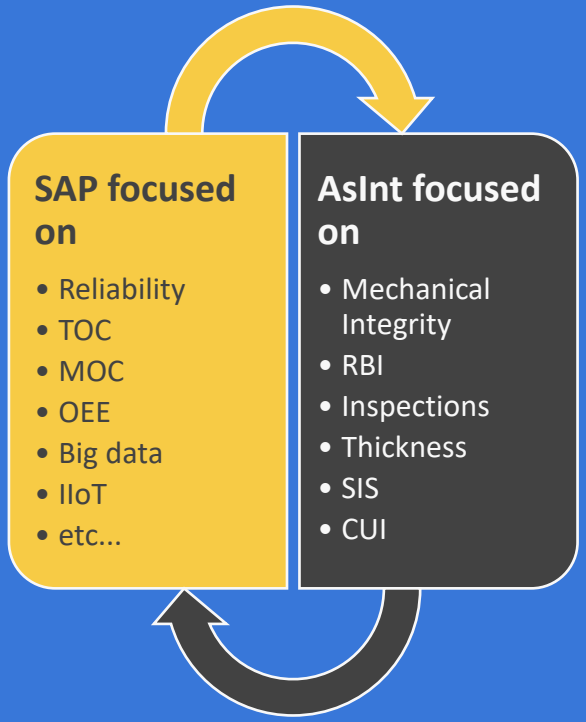
AsInt, Inc.
Houston, Texas
www.asint.net

Industry
- Oil and Gas / Petrochemical
- Semiconductor
- Dairy / Packaging

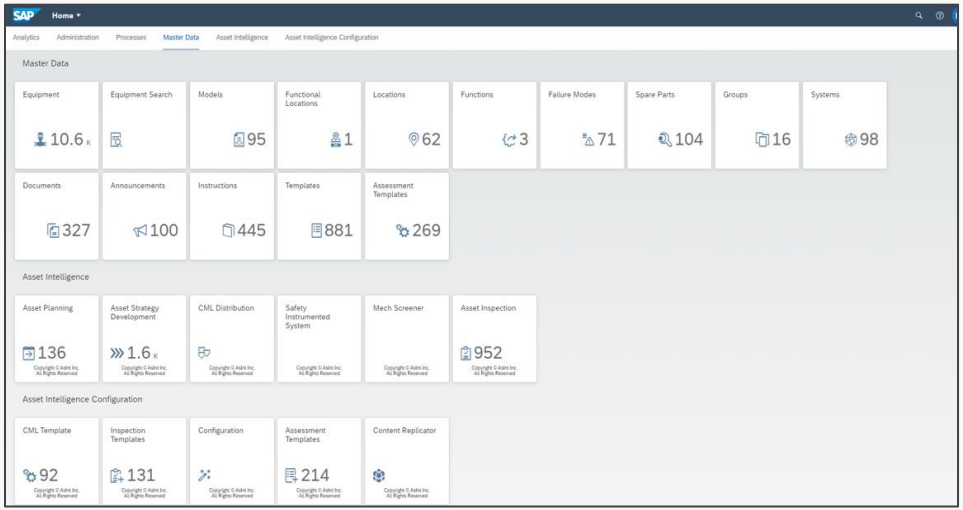
Featured Solutions
- RBI (Risk-Based Inspection Apps)
- IDMS (Inspection Data Management Apps)

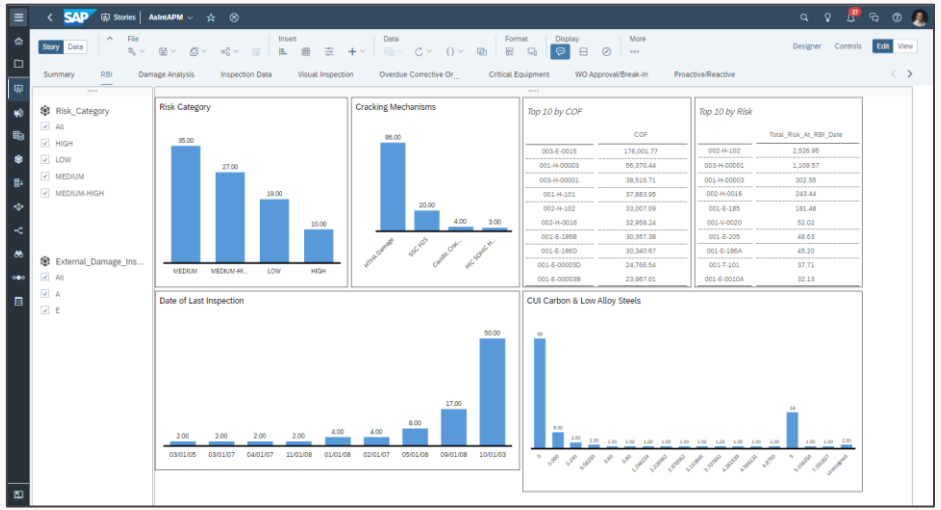
THE BEST RUN SAP

Co-Innovation with SAP



- ✓ *Embed MI functions in SAP AIN and ASPM*
- ✓ *Performing these functions within the SAP ecosystem ensures all data needed to manage the swiss cheese model is consolidated within the SAP Master Data*
- ✓ *Remove multiple asset registries*
- ✓ *Connecting the dots for tactical and strategic decisions*
- ✓ *Removing data silos and disconnected work processes*
- ✓ *Co-Innovated with SAP*
- ✓ *Endorsed by SAP*

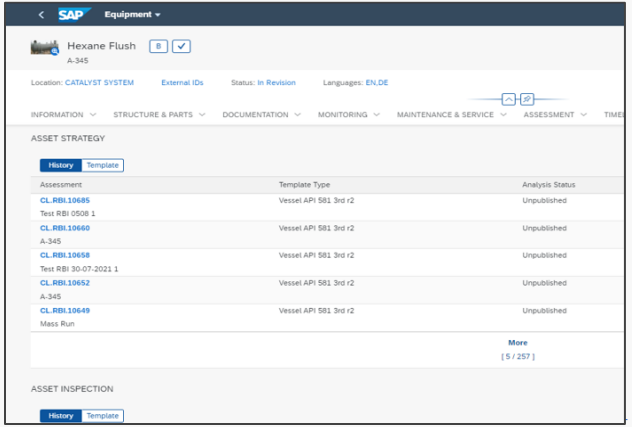


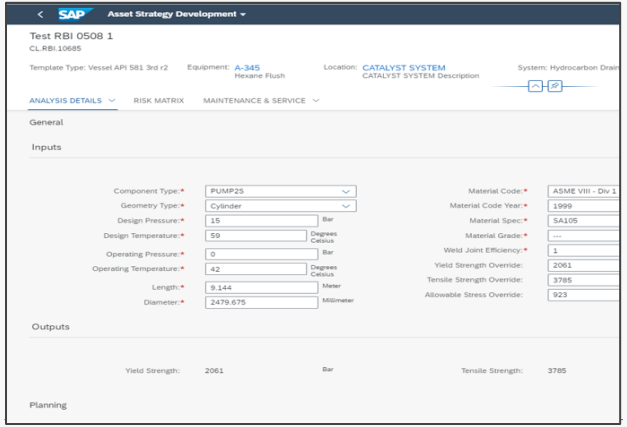


Deployed within the SAP Fiori launchpad for seamless use with the SAP Intelligent Asset Management (IAM) suite

Empowering Faster Decisions and Improving data quality through transparency

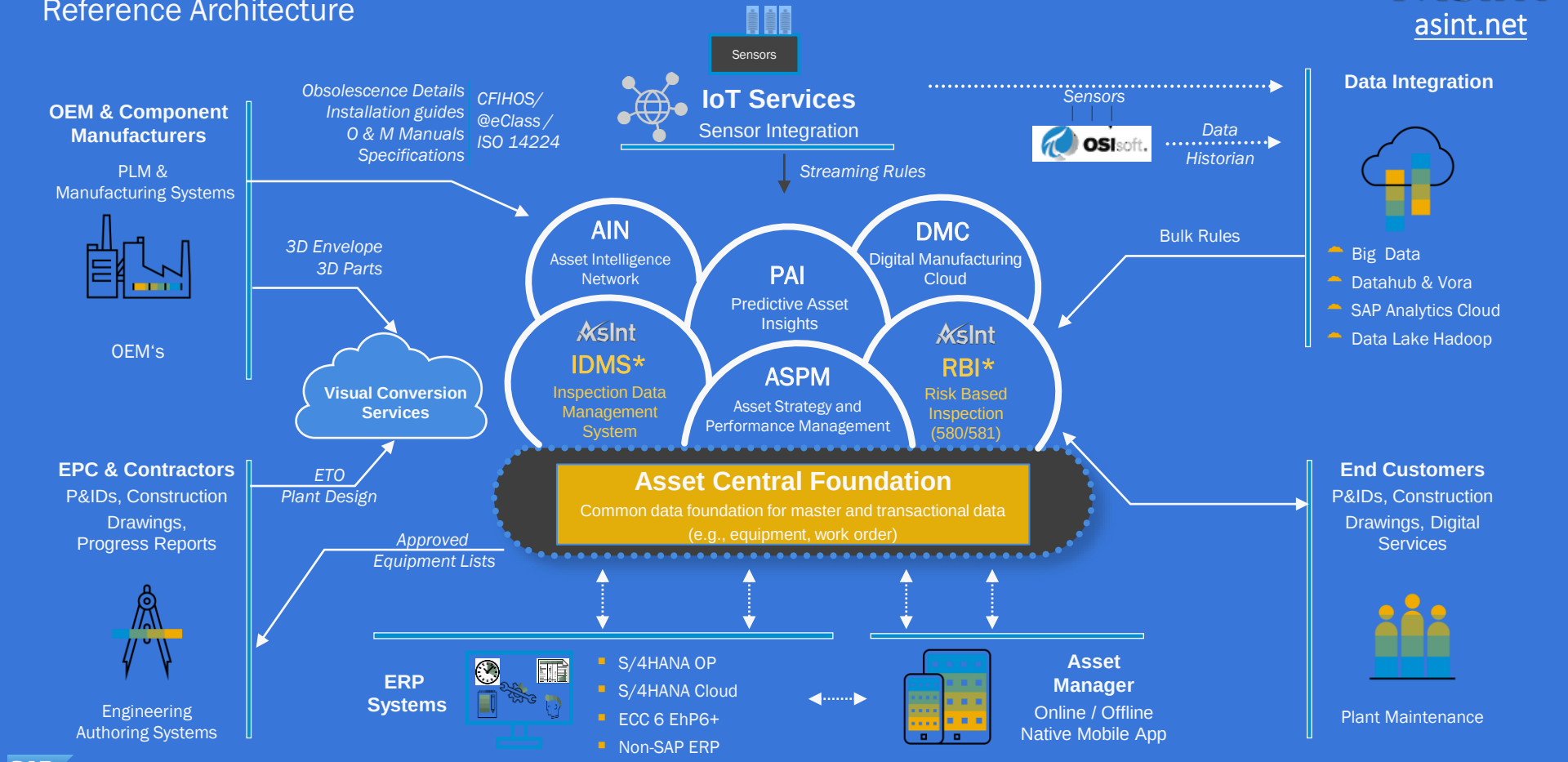
Developing a foundation for Artificial Intelligence





SAP Intelligent Asset Management (IAM) / Asset Performance Management (APM) Reference Architecture

AsInt
asint.net



SAP Silver Partner

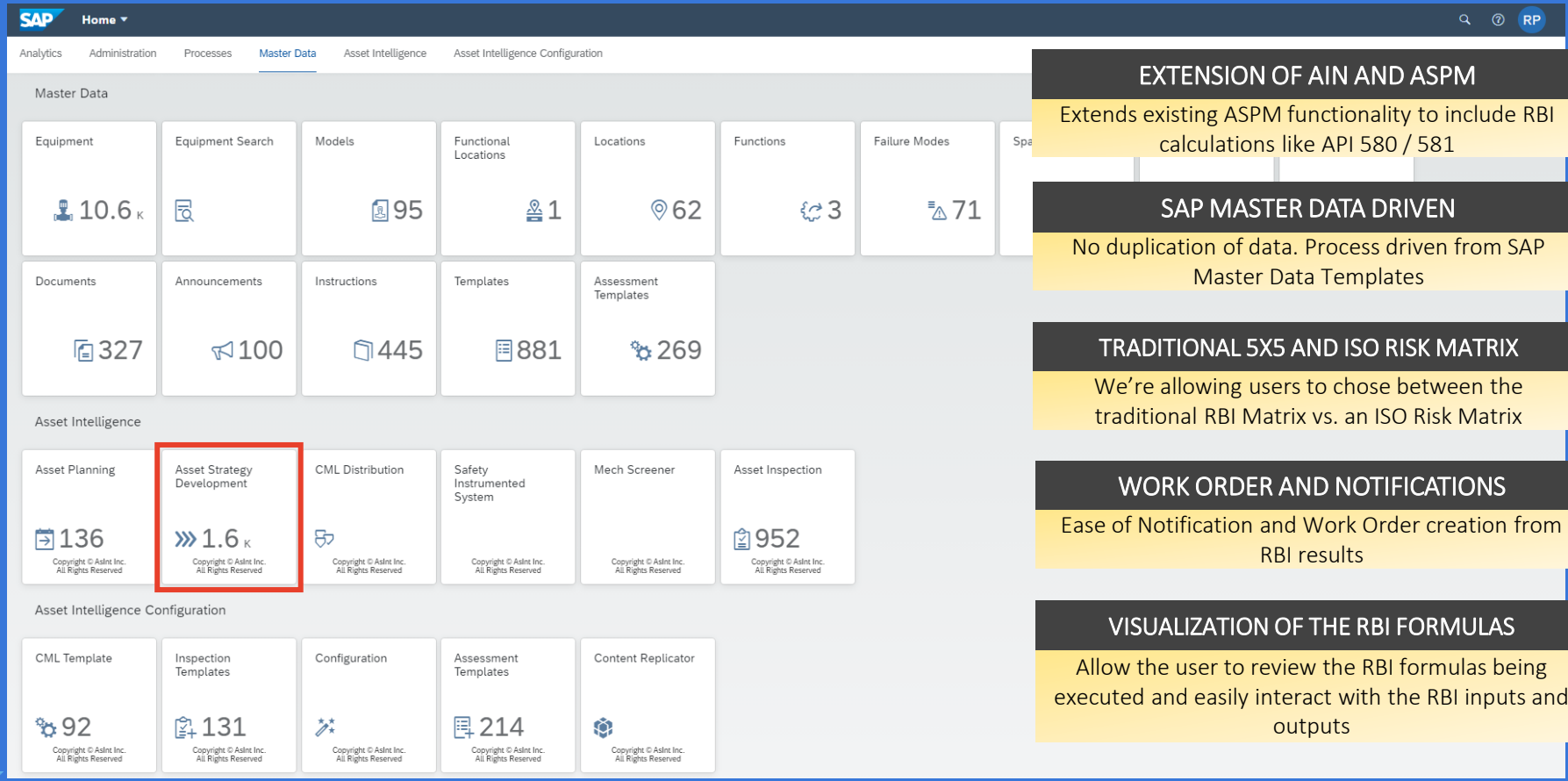
*SAP IAM Partner Application (AsInt)

*Represents the roadmap for the E2E Architecture for Intelligent Asset Management and Digital Twin

Risk based Inspection (RBI)

Industry accepted Risk Based Inspection models (calculators) embedded within SAP. Certified and Co-Innovation with SAP.

asint.net



EXTENSION OF AIN AND ASPM

Extends existing ASPM functionality to include RBI calculations like API 580 / 581

SAP MASTER DATA DRIVEN

No duplication of data. Process driven from SAP Master Data Templates

TRADITIONAL 5X5 AND ISO RISK MATRIX

We're allowing users to chose between the traditional RBI Matrix vs. an ISO Risk Matrix

WORK ORDER AND NOTIFICATIONS

Ease of Notification and Work Order creation from RBI results

VISUALIZATION OF THE RBI FORMULAS

Allow the user to review the RBI formulas being executed and easily interact with the RBI inputs and outputs

SAP Silver Partner

Hexane Flush

B

A-345

Publish Manage

Location: CATALYST SYSTEM External IDs Status: In Revision Languages: EN,DE

ASSET STRATEGY

History Template

Assessment	Template Type	Analysis Status	Created On
CL.RBI.10685 Test RBI 0508 1	Vessel API 581 3rd r2	Unpublished	Aug 4, 2021
CL.RBI.10660 A-345	Vessel API 581 3rd r2	Unpublished	Aug 3, 2021
CL.RBI.10658 Test RBI 30-07-2021 1	Vessel API 581 3rd r2	Unpublished	Jul 29, 2021
CL.RBI.10652 A-345	Vessel API 581 3rd r2	Unpublished	Jul 27, 2021
CL.RBI.10649 Mass Run	Vessel API 581 3rd r2	Unpublished	Jul 26, 2021

More

[5 / 257]

ASSET INSPECTION

History Template

Assessment	Template Type	Analysis Status	Created On
CL.RBI.10716 Test	API 510 External for Vessels	Unpublished	Aug 17, 2021
CL.RBI.10715 Example	API 510 External for Vessels	Unpublished	Aug 17, 2021
CL.RBI.10711	Fixed Equipment External	Unpublished	Aug 16, 2021

Test RBI 0508 1

CL.RBI.10685

Edit Header | Save | Calculate | Publish | Delete | Report

Template Type: Vessel API 581 3rd r2 | Equipment: A-345 Hexane Flush | Location: CATALYST SYSTEM CATALYST SYSTEM Description | System: Hydrocarbon Drains | Analysis Status: Unpublished | Updated On: Aug 15, 2021 | General Selection: 12/13 | Currency: USD

ANALYSIS DETAILS | RISK MATRIX | MAINTENANCE & SERVICE

General

Inputs

Display History | Map Findings

Component Type:*	PUMP2S		Material Code:*	ASME VIII - Div 1		Corrosion Allowance:*	3.175	Millimeter
Geometry Type:*	Cylinder		Material Code Year:*	1999	Years	Structural tmin:*	2.99999	Millimeter
Design Pressure:*	15	Bar	Material Spec:*	SA105		Equipment Design or Fabrication Factor:*	No	
Design Temperature:*	59	Degrees Celsius	Material Grade:*	---		Interface Factor:*	No	
Operating Pressure:*	0	Bar	Weld Joint Efficiency:*	1		Data Reliability:*	Low Reliability Data	
Operating Temperature:*	42	Degrees Celsius	Yield Strength Override:	2061	Bar	RBI Date:*	July 5, 2021	
Length:*	9.144	Meter	Tensile Strength Override:	3785	Bar	Plan Date:*	July 5, 2031	
Diameter:*	2479.675	Millimeter	Allowable Stress Override:	923	Bar			

Outputs

Yield Strength:	2061	Bar	Tensile Strength:	3785	Bar	Allowable Stress:	923	Bar

Planning

Inputs

Display History | Map Findings

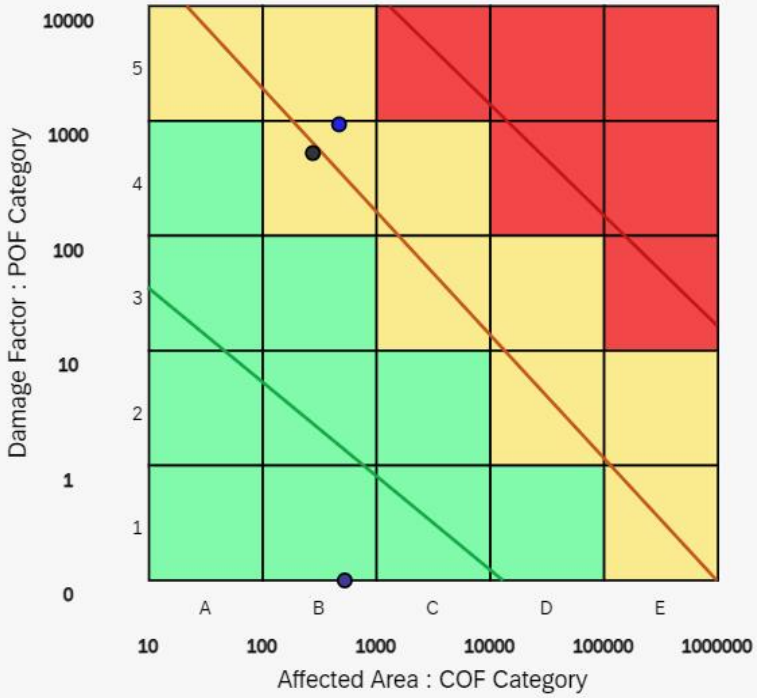
Test RBI 0508 1

CL.RBI.10685

Edit Header | Save | Calculate | Publish | Delete | Report

Template Type: Vessel API 581 3rd r2 | Equipment: A-345 Hexane Flush | Location: CATALYST SYSTEM CATALYST SYSTEM Description | System: Hydrocarbon Drains | Analysis Status: Unpublished | Updated On: Aug 15, 2021 | General Selection: 12/13 | Currency: USD

ANALYSIS DETAILS | RISK MATRIX | MAINTENANCE & SERVICE

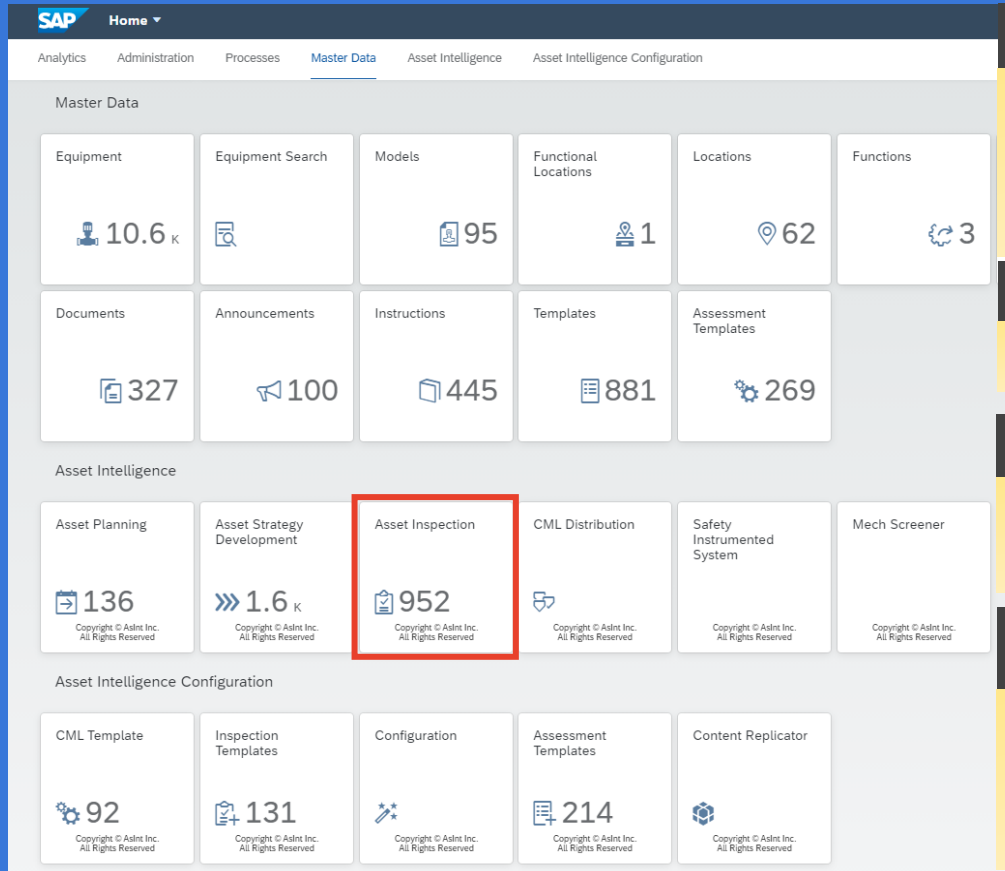


- Damage Factor
  RBI Date = **496.65**
  Plan Date = **754.03**
- Thinning Damage Factor
  Plan Date = **754.03**
  Component Damage (hole) Cost = **0**
- Cracking Damage Factor
  RBI Date = **710.04**
  Plan Date = **976.61**

Inspection Database Management System (IDMS)

Industry accepted Inspection management App embedded within SAP Asset Strategy and Performance Management (ASPM) solution.

asint.net



EXTENSION OF AIN AND ASPM

Extends existing ASPM functionality to standards on how to inspect the physical asset such as:

- ✓ API 510 (Pressure Vessel Inspection)
- ✓ API 570 (Pipe Inspection)
- ✓ API 653 (Storage Tank Inspection)
- ✓ Other Global Standards

SAP MASTER DATA DRIVEN

No duplication of data. Process driven from SAP Master Data Templates

LOCATION, INSPECTION, AND ANALYSIS SUMMARY

Quick access to Condition Monitoring Locations. Access to Inspections, including Thickness Data and Analysis of Thickness Data

THICKNESS ANALYSIS AND LOCATION MANAGEMENT

Short Term and Long-Term Corrosion Rates comparison. Remaining and Half Life Trending Preform Tmin (Thickness Minimum) and MAWP (Maximum Allowable Working Pressure) calculation. History Reading & Photos

SAP Silver Partner

Search

CMLs(25)

- **H-001-Top Head** — UT Shell
- **H-002-Top Head** — UT Shell
- **H-003-Top Head** — UT Shell
- **H-004-Bottom Head** — UT Shell
- **H-005-Bottom Head** — UT Shell
- **H-006-Bottom Head** — UT Shell
- **N-001-Nozzle Bottom** — UT Shell
- **N-002-Nozzle Top** — UT Shell
- **N-003-Nozzle Bottom** — UT Shell
- **N-004-Nozzle Top** — UT Shell
- **N-005-Nozzle Bottom** — UT Shell
- **N-006-Nozzle Top** — UT Shell
- **N-007-Nozzle Bottom** — UT Shell

H-001-Top Head

Save Calculate

Background information o fthe CML | Cylindrical shells Outside Radius(PR/SE+0.4P) | Structural T-Min | History

Background

Active:	YES	
Description:	A-345-H-001-Top Head	
Geometry:	2:1 Ellipsoidal Head	
Access Required:	NO	
Insulation Type:	Pearlite	
Tmin (User Defined):	16.6624	Millimeter
Code Year:	1998	Years
Construction Code:	ASME Section VIII Div 1	
Material Spec:	SA-283	
Material Grade:	C	
Nominal Thickness:	19.05	Millimeter
Outside Diameter:	1828.8	Millimeter
Joint Efficiency:	1	
Comment:		
Date In Service:	May 26, 1992	
Selected T-Min [1: Calculated (Pressure) , 2: Structural , 3: User Defined]:*	2	
Structural T-Min:	3.556	Millimeter

Test

CL.RBI.10716

Edit Header | Publish | Delete | Report

Template Type: API 510 External for Vessels
Equipment: A-345 Hexane Flush
Location: CATALYST SYSTEM CATALYST SYSTEM Description
System: Hydrocarbon Drains
Analysis Status: Unpublished
Updated On: Aug 17, 2021
Inspection Date: Aug 18, 2021
Component: 1

INFORMATION | CHECKLIST | CML | PHOTOS | MAINTENANCE AND SERVICE

Edit

Category and Name		
Supports Support Shoes	**Condition**	**Findings**
Supports Supports	**Condition**	**Findings**
Insulation Penetrations	**Findings**	**Condition**
Insulation Coating/Painting	**Condition**	**Findings**
Connections Threaded Connections	**Findings**	**Condition**

Fixed Equipment

IDMS_FIXED_EQUIPMENT

Publish

Location: ATMOSPHERE_LOCATION | External IDs | Status: Unpublished | Languages: EN

UT Cylindrical Shell ID Div 1

		Jul 2020	Jul 2015	Dec 2010	Jul 2005	Jul
H-001 Top Head	Reading (Millimeter)	8.001	8.0772	19.5072	8.1534	8.17
	Tmin (Millimeter)	3.556	3.556	3.556	3.556	3.55
	Short Term Corrosion Rate (Millimeter)	0.0152	2.8575	-2.2708	0.0025	0
	Long Term Corrosion Rate (Millimeter)	0.0076	0.0051	-0.6299	0.0025	0
	Remaining Life (Years)	50	1	0	50	50
	Half Life (Years)	25	0	0	25	25
	Retirement Date	Jul 14, 2045	Apr 14, 2016	Dec 14, 2010	Jul 14, 2030	Jul
H-002 Top Head	Reading (Millimeter)	19.304	19.431	19.5072	8.128	8.12
	Tmin (Millimeter)	3.556	3.556	3.556	3.556	3.55
	Short Term Corrosion Rate (Millimeter)	0.0254	0.0203	-2.2758	0	0.00

More

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Ideo & AsInt solution

- Use the SAP Intelligent Asset management portfolio for Maintenance and Field Service in order to:
  - Increases Asset Performance
  - Reduce Maintenance costs
  - Delivers Service Excellence
- The Asset Performance Management part contains the Asset Strategy & Performance Management (ASPM) module. Use SAP ASPM to:
  - Assess the risk and criticality of assets
  - Determine the appropriate maintenance strategy
- The Risk Based Inspections part contains the RBI, IDMS module. Use RBI/IDMS to:
  - Remove multiple asset registries
  - Connecting the dots for tactical and strategic decisions
  - Removing data silos and disconnected work processes

Fast

Scalable

Simple

ideo

20 jaar

Fixed cost

Low risk

ideo Solution Package ASPM

Invitation

Sign up for the Ideo Solution Package

ideo

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ideo

ideo Verbeter uw service- en onderhoudsprocessen

www.ideo-nl.com

Bedankt voor je deelname

Bekijk op www.VNSGFocusOnline.nl welke sessies er nog meer zijn!

AsInt Kideo